



CONTRASTES SOBRE LA MEDIA:			
		Rechazamos H_0 a un nivel de significación α si:	
H_0	H_1	σ^2 conocida	σ^2 desconocida
$\mu \leq \mu_0$	$\mu > \mu_0$	$\bar{x} \leq \mu_0 + \frac{\sigma}{\sqrt{n}} Z_\alpha$	$\bar{x} \geq \mu_0 + \frac{s}{\sqrt{n}} t_{n-1, \alpha}$
$\mu \geq \mu_0$	$\mu < \mu_0$	$\bar{x} \leq \mu_0 + \frac{\sigma}{\sqrt{n}} Z_{1-\alpha}$	$\bar{x} \leq \mu_0 + \frac{s}{\sqrt{n}} t_{n-1, 1-\alpha}$
$\mu = \mu_0$	$\mu \neq \mu_0$	$ \bar{x} - \mu_0 \geq \frac{\sigma}{\sqrt{n}} Z_{\alpha/2}$	$ \bar{x} - \mu_0 \geq \frac{s}{\sqrt{n}} t_{n-1, \alpha/2}$

CONTRASTES SOBRE LA VARIANZA:			
		Rechazamos H_0 a un nivel de significación α si:	
H_0	H_1	μ conocida	μ desconocida
$\sigma \geq \sigma_0$	$\sigma < \sigma_0$	$\sum_{i=1}^n (x_i - \mu)^2 \leq \chi_{n-1, 1-\alpha}^2 \sigma_0^2$	$s^2 \leq \frac{\sigma_0^2}{n-1} \chi_{n-1, 1-\alpha}^2$
$\sigma \leq \sigma_0$	$\sigma > \sigma_0$	$\sum_{i=1}^n (x_i - \mu)^2 \geq \chi_{n, \alpha}^2 \sigma_0^2$	$s^2 \geq \frac{\sigma_0^2}{n-1} \chi_{n-1, \alpha}^2$
$\sigma = \sigma_0$	$\sigma \neq \sigma_0$	$\left\{ \begin{array}{l} \sum_{i=1}^n (x_i - \mu)^2 \leq \chi_{n, 1-\alpha/2}^2 \sigma_0^2 \\ \text{ó} \\ \sum_{i=1}^n (x_i - \mu)^2 \geq \chi_{n, \alpha/2}^2 \sigma_0^2 \end{array} \right.$	$\left\{ \begin{array}{l} s^2 \leq \frac{\sigma_0^2}{n-1} \chi_{n-1, 1-\alpha/2}^2 \\ \text{ó} \\ s^2 \geq \frac{\sigma_0^2}{n-1} \chi_{n-1, \alpha/2}^2 \end{array} \right.$



CONTRASTES DE HIPÓTESIS.

CONTRASTES SOBRE DIFERENCIA DE MEDIAS:			
Rechazamos H_0 a un nivel de significación α si:			
H_0	H_1	σ_1^2 y σ_2^2 conocidas	σ_1^2 y σ_2^2 desconocidas pero $\sigma_1^2 = \sigma_2^2$
$\mu_1 - \mu_2 \leq \delta$	$\mu_1 - \mu_2 > \delta$	$\bar{x} - \bar{y} \geq \delta + z_\alpha R_p$	$\bar{x} - \bar{y} \geq \delta + t_{n_1+n_2-2, \alpha} S_p$
$\mu_1 - \mu_2 \geq \delta$	$\mu_1 - \mu_2 < \delta$	$\bar{x} - \bar{y} \leq \delta - z_\alpha R_p$	$\bar{x} - \bar{y} \leq \delta - t_{n_1+n_2-2, \alpha} S_p$
$\mu_1 - \mu_2 = \delta$	$\mu_1 - \mu_2 \neq \delta$	$ \bar{x} - \bar{y} - \delta \geq z_{\alpha/2} R_p$	$ \bar{x} - \bar{y} - \delta \geq t_{n_1+n_2-2, \alpha/2} S_p$
$R_p = \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}$		$S_p = \sqrt{\frac{(n_1-1)S_1^2 + (n_2-1)S_2^2}{n_1+n_2-2}} \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}$	
S_1 y S_2 son las cuasivarianzas			

CONTRASTES SOBRE LA DIFERENCIA DE VARIANZAS:			
Rechazamos H_0 a un nivel de significación α si:			
H_0	H_1	μ_1 y μ_2 conocidas	μ_1 y μ_2 desconocidas
$\sigma_1^2 \leq \sigma_2^2$	$\sigma_1^2 > \sigma_2^2$	$\frac{\sum_{i=1}^{n_1} (x_i - \mu_1)^2}{\sum_{i=1}^{n_2} (y_i - \mu_2)^2} \geq \frac{n_1}{n_2} F_{n_1, n_2, \alpha}$	$\frac{S_1^2}{S_2^2} \geq F_{n_1-1, n_2-1, \alpha}$
$\sigma_1^2 \geq \sigma_2^2$	$\sigma_1^2 < \sigma_2^2$	$\frac{\sum_{i=1}^{n_2} (y_i - \mu_2)^2}{\sum_{i=1}^{n_1} (x_i - \mu_1)^2} \geq \frac{n_2}{n_1} F_{n_2, n_1, \alpha}$	$\frac{S_2^2}{S_1^2} \geq F_{n_2-1, n_1-1, \alpha}$
$\sigma_1^2 = \sigma_2^2$	$\sigma_1^2 \neq \sigma_2^2$	$\left\{ \begin{array}{l} \frac{\sum_{i=1}^{n_1} (x_i - \mu_1)^2}{\sum_{i=1}^{n_2} (y_i - \mu_2)^2} \geq \frac{n_1}{n_2} F_{n_1, n_2, \alpha/2} \\ \text{ó} \\ \frac{\sum_{i=1}^{n_2} (y_i - \mu_2)^2}{\sum_{i=1}^{n_1} (x_i - \mu_1)^2} \geq \frac{n_2}{n_1} F_{n_2, n_1, \alpha/2} \end{array} \right.$	$\left\{ \begin{array}{l} \frac{S_1^2}{S_2^2} \geq F_{n_1-1, n_2-1, \alpha/2} \quad \text{si} \quad S_1^2 \geq S_2^2 \\ \text{ó} \\ \frac{S_2^2}{S_1^2} \geq F_{n_2-1, n_1-1, \alpha/2} \quad \text{si} \quad S_1^2 < S_2^2 \end{array} \right.$